

INTERNATIONAL SEARCH REPORT

IB2004/002547

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A23L2/10 B01D1/10 B01D1/12 B01D1/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A23L B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, FSTA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 686 375 A (MOJONNIER BROS CO) 21 January 1953 (1953-01-21)	1,4
Y	the whole document	2,3
X	WO 91/01654 A (ROSSI & CATELLI SPA) 21 February 1991 (1991-02-21)	1,4
Y	claims 1-4,8; figure 1 page 1, paragraph 1 page 3, paragraph 3 - page 5, paragraph 3 page 6, line 5 - page 7, line 6	2,3
X	GB N17145A (CHAPMAN ALFRED) 27 July 1914 (1914-07-27)	1
Y	page 1, paragraph 2 - page 2, paragraph 2; figure 1	2,3
	----- -/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

3 November 2004

Date of mailing of the international search report

18/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Tallgren, A

INTERNATIONAL SEARCH REPORT

IB2004/002547

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 197846 Derwent Publications Ltd., London, GB; Class D15, AN 1978-82952A XP002303847 & JP 53 116272 A (HITACHI SHIP & ENG CO LTD) 11 October 1978 (1978-10-11)	1
Y	abstract	2,3
Y	----- GB 937 623 A (BADGER CO) 25 September 1963 (1963-09-25) page 1, line 24 - page 2, line 105; figure 1	2,3
Y	----- GB 669 928 A (ENGLISH ELECTRIC CO LTD) 9 April 1952 (1952-04-09) page 1, lines 9-16,58 - page 2, line 60; claims 1-8; figure 1 -----	2,3

INTERNATIONAL SEARCH REPORT

IB2004/002547

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 686375	A	21-01-1953	NONE	
WO 9101654	A	21-02-1991	IT 1231497 B AR 246169 A1 AT 96622 T BR 9007585 A CA 2064684 A1 DE 69004435 D1 DE 69004435 T2 DK 486527 T3 WO 9101654 A1 EP 0486527 A1 ES 2046792 T3 JP 3045305 B2 JP 4507343 T MX 171812 B PT 94941 A ,B TR 24667 A US 5415732 A ZA 9005923 A	07-12-1991 29-07-1994 15-11-1993 30-06-1992 12-02-1991 09-12-1993 14-04-1994 14-03-1994 21-02-1991 27-05-1992 01-02-1994 29-05-2000 24-12-1992 16-11-1993 18-04-1991 01-03-1992 16-05-1995 26-06-1991
GB 191317145	A	27-07-1914	NONE	
JP 53116272	A	11-10-1978	JP 1114621 C JP 57003430 B	29-09-1982 21-01-1982
GB 937623	A	25-09-1963	NONE	
GB 669928	A	09-04-1952	NONE	